

Organic Chemistry Synthesis Calculator

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this book outlines the methodologies approaches and tools for modelling chemicals in a life cycle assessment lca perspective and also covers the main advantages and drawbacks of applying lca to chemical processes in the first part of this book authors pay close attention to the limitations of modelling the environmental and social impacts of chemical processes providing valuable insights to the problems of the life cycle inventory lci analysis for chemical processes in the second part of this book readers will learn about the lca application to chemical processes in the laboratory and industrial scale in each chapter of this book readers will also find specific case studies on the modelling and application of lca in the chemical industry

this new edition has been revised throughout and adds several sections including lean

manufacturing and design for the environment low impact development and green infrastructure green science and engineering and sustainability it presents strategies to reduce waste from the source of materials development through to recycling and examines the basic concepts of the physical chemical and biological properties of different pollutants it includes case studies from several industries such as pharmaceuticals pesticides metals electronics petrochemicals refineries and more it also addresses the economic considerations for each pollution prevention approach

a celebrated classic in the field updated and expanded to include the latest computerized calculation techniques in 1964 james n butler published a book in which he presented some simple graphical methods of performing acid base solubility and complex formation equilibrium calculations today both the book and these methods have become standard for generations of students and professionals in fields ranging from environmental science to analytical chemistry named a citation classic by the science citation index in 1990 the book ionic equilibrium continues to be one of the most widely used texts on the subject so why tamper with near perfection by attempting a revision of that classic the reason is simple the recent rapid development and wide availability of personal computers in the revised ionic equilibrium dr butler updates his 1964 work by abandoning the slide rule and graph paper for the pc spreadsheet he also expands the original coverage with extensive material on basic principles and recent research the first part of ionic equilibrium is devoted to the fundamentals of acid base solubility and complex formation equilibria in the second part the author discusses oxidation reduction equilibria develops the principles of carbon dioxide equilibria presents case studies demonstrating the ways in which carbon dioxide equilibria are used in physiology and oceanography and explores the possibility of a ph scale for brines the concluding chapter written by david r cogley gives examples of general computer programs that are capable of performing equilibrium calculations on systems of many components replete with real world examples details of important calculations and practical problems ionic equilibrium is an ideal course text for students of environmental chemistry engineering or health analytical chemistry oceanography geochemistry biochemistry physical chemistry and clinical chemistry it is also a valuable working resource for professionals in those fields as well as industrial chemists involved with solution chemistry

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written in a style and language that users without science backgrounds can understand this best selling introduction to the basic principles of chemistry draws on the reader's own experiences through analogies and cartoons to learn difficult concepts the clear systematic thinking approach to problem solving has also been highly praised by reviewers and users alike countdown sections in each chapter consisting of five review questions keyed to previous

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